

Schedule for Winter Training Program 3 (WTP 3)	
Day	Contents
Day 1	<p><u>Introduction:</u> About civil engineering; role of structural engineering; structure; analysis, shear force, bending moment, deflection, displacement, stress; design philosophies; theoretical approach to design of structures. Behavior of various structural component: Beam, Column, Slab, Walls, Foundation, Arch, Truss etc.</p>
Day 2	<p><u>Drawing Reading and Detailing:</u> Construction drawing (Architectural drawing, Structural drawings, Electrical drawing, plumbing drawings, finished drawings), General arrangement drawing, General notes, line type, Reviewing plan views, elevation views, section views and isometric. Detailing of beam, column, slab, shear wall, retaining wall, foundation.</p>
Day 3	<p><u>Pre-Project Activities:</u> Site location, Site measurements, Survey of site, Clearance from Government bodies, Architectural planning, Resources of building material, Contract, Types of Contract, Finalization of contractor.</p>
Day 4	<p><u>Civil Engineering Materials:</u> Building material, Quality of good buildings (Cement, Sand, Aggregate, Steel, Bricks), Tests on Cement (Field and Laboratory test)</p>
Day 5	<p><u>Civil Engineering Materials:</u> Aggregate, Tests on aggregate, Quality of good aggregates, Tests on Concrete, Quality of good concrete, Factors affecting on quality of concrete, Quality of Good Site Engineer, Points keep in mind on Construction Site.</p>
Day 6	<p><u>Estimation:</u> Estimation, Purpose of estimation, Method of estimation.</p>
Day 7	<p><u>AutoCAD:</u> Planning in AutoCAD, Drawing Commands in AutoCAD, All Editing Commands in AutoCAD, general arrangement drawing of real life ongoing project at TeXeL Consulting Engineers</p>
Day 8	<p><u>AutoCAD:</u> Creating elevations, isometric views using 3D drawing commands, 3D editing commands., structural detailed drawing for RCC and Steel design projects.</p>
Day 9	<p><u>Estimation:</u> Description and units of measurements for common items, Estimation of civil works of a residential building.</p>
Day 10	<p><u>Preparation of detailed project report (ongoing/completed real project)</u></p>

Day 11	Guest/Expert Lecture: Guest lecture by expert from construction industry to discuss the role and responsibilities of people in construction company, experience sharing.
Day 12	Guest/Expert Lecture: Guest lecture by expert to discuss repair and rehabilitation of existing building.
Day 13	Site Visit: Introduction: understanding of site; site conditions; construction equipment; construction materials; challenges for civil engineers; best practices. General aspects: labor management; safety aspect; role and responsibilities of various people at site; description of levelling, alignment, shuttering, formwork, joggling, clear cover, concrete placing.
Day 14	Site Visit: Understanding of drawing: drawing readings; bar bending schedule; bill of quantity; construction procedure; Quality control: quality control in construction.
Day 15	Project Report: Final Training Report submission and discussion, Questionnaire sessions, power point presentations, feedbacks, certificate distribution.

Batch Details:

December 06 th , 2017 – December 20 th , 2017	-	Batch 1 st
December 11 th , 2017 – December 25 th , 2017	-	Batch 2 nd
December 16 th , 2017 – December 30 th , 2017	-	Batch 3 rd

General Instructions:

- Any student can join more than one program at a time.
- Schedule for other program (WTP2 & WTP3) is given in separate documents.
- Company will also arrange accommodation for those who required, however charges for same will be paid by applicant.
- Registration fee, course fee and accommodation expenses is given at website.
- For above schedule a 2 hours regular teaching class will be delivered every day. Apart from that students may practice at company as much as they wish.

Training Centers:

CivilShala, TeXeL Group, P No: 20, Rishi Colony, Near Gandhi Nagar Railway Station (Gate No: 2), Tonk Road, Jaipur-302015.

Further Information Required:

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